

BEST AVAILABLE COPY

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/048407 A1

(51) International Patent Classification⁷: **C07K 14/435**

(21) International Application Number:
PCT/KR2002/002195

(22) International Filing Date:
22 November 2002 (22.11.2002)

(25) Filing Language: **Korean**

(26) Publication Language: **English**

(71) Applicants and

(72) Inventors: LEE, In-Hee [KR/KR]; #102-1502 LG-SK APT., Chungsoo-dong, Chunan-si, 330-190 Choongchung-nam-do (KR). SON, Seok-Min [KR/KR]; #107-1003 Yongamdongabyeksan APT., SSangyong-dong, Chunan-si, 330-090 Choongchungnam-do (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JANG, Woong-Sik [KR/KR]; #102-1303 Hando APT., Kongsu-ri, Bae-bang-myun, Asan-si, 336-852 Choongchungnam-do (KR).

KIM, Kyu-Nam [KR/KR]; #306-506 Kwanaksungwon APT., Boohung-dong, Dongan-ku, Anyang-si, 431-054 Kyunggi-do (KR).

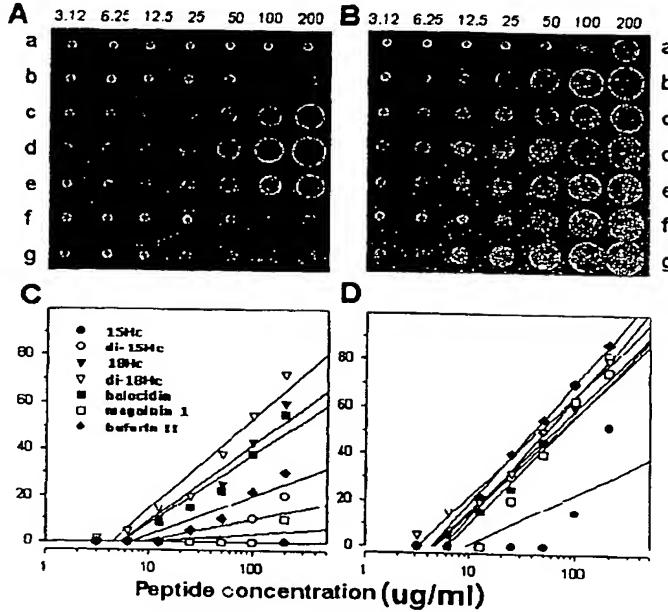
(74) Agent: LEE, Won-Hee; 8th Fl., Sung-ji Heights II, 642-16 Yoksam-dong, Kangnam-ku, 135-080 Seoul (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ANTIMICROBIAL PEPTIDE ISOLATED FROM HALOCYNTHIA AURANTUM



WO 2004/048407 A1

(57) Abstract: The present invention relates to an antimicrobial peptide isolated from Halocynthia aurantium, more particularly, to an antimicrobial peptide isolated from the body fluid of Halocynthia aurantium and an antimicrobial agent comprising the same as an active ingredient. The antimicrobial peptide of the present invention shows excellent antimicrobial activity under strong acidic and basic environments. Moreover, it also shows strong antimicrobial activity against resistant bacteria. So, it can be used usefully as a natural antimicrobial agent.